

CLAIMS:

1. Method of enabling differentiated control point access to services provided by a media provision entity in a computing environment (10) having a computer networking connectivity model, comprising the steps of:
 - providing at least one logical device (24, 26) for a media provision entity (12),
5 (step 38), and
 - providing at least two different sets of permissions in relation to assets (asset1, asset2, asset3, asset4, asset5, asset6) associated with the media provision entity from said logical device, (step 40).
- 10 2. Method according to claim 1, wherein the sets provide different permissions on an asset-by-asset basis.
3. Method according to claim 1, wherein at least two logical devices are provided and a separate set of permissions is provided for each device.
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4. Method according to claim 1, wherein at least two different sets allow at least one and the same action on an asset, but provide different results.
5. Method according to claim 1, wherein the step of providing different sets of
20 permissions is provided via a content directory service provided in each logical device.
6. Method according to claim 1, further comprising the steps of registering a control point (20) with a security console (22) associated with the media provision entity (12), (step 42), and providing the control point with access according to at least one (24; 26)
25 of the sets of permission.
7. Method according to claim 6, wherein the control point is provided with access according to only one of the sets of permission.

8. Method according to claim 6, wherein there are at least two logical devices provided and a separate set of permissions is provided for each device and further comprising the step of attempting accessing all devices from the control point, (step 46), allowing access from one of the devices according to the set of permissions of that device, (step 48), and
5 returning a fail message to the control point from the other devices, (step 50).
9. Method according to claim 6, wherein the control point is provided with access to both the sets of permission.
- 10 10. Method according to claim 9, further comprising the step of only allowing access for the set of permissions that are the most extensive.
11. Method according to claim 9, further comprising the step of allowing access based on a logical "or" or "exclusive-or" operation of the sets of permissions.
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12. Method according to claim 1, wherein the computer networking connectivity model is UPnP.
13. Method of providing access to a control point (20) from a media provision
20 entity (12) in a computing environment (10) having a computer networking connectivity model, which entity has at least one logical device (24, 26) providing at least two different sets of permissions in relation to assets (asset1, asset2, asset3, asset4, asset5, asset6) associated with the media provision entity comprising the steps of:
- receiving an access attempt from a control point in all devices, (step 46),
 - 25 - granting access according to one of the sets of permissions for which the control point has received access, (step 48), and
 - allowing access to the assets according to the permissions set, (step 50).
14. Method according to claim 13, wherein the sets provide different permissions
30 on an asset-by-asset basis.
15. Method according to claim 13, wherein there are at least two logical devices, where a different set of permissions are associated with each device and the step of allowing

access comprises allowing access to the device associated with the set of permissions for which access has been granted.

16. Method according to claim 13, wherein at least two different sets allow at least one and the same action on an asset, but provide different results.

17. Apparatus (12) for enabling differentiated control point access to services provided in a computing environment (10) having a computer networking connectivity model and comprising:

- 10 - a number of assets (asset1, asset2, asset3, asset4, asset5, asset6), and
- at least one logical device (24, 26) providing at least two different sets of permissions to control points in relation to assets associated with the apparatus.

18. Apparatus according to claim 17, wherein the sets provide different permissions on an asset-by-asset basis.

19. Apparatus according to claim 17, wherein the apparatus comprises at least two logical devices where each provides a different set of permissions.

20. Apparatus according to claim 17, wherein at least two different sets allows the same action on an asset, but provide different results.

21. Apparatus according to claim 17, wherein each device is provided with a content directory service (28, 32) for identifying assets which can be accessed.

22. Apparatus according to claim 19, wherein a device for which a control point has been provided access is arranged to allow access and the other devices are arranged to return a fail message upon a request for access by the control point.

23. Apparatus according to claim 17, wherein a control point has been allowed access according to more than one of the sets of permissions and the apparatus is arranged to allow access based on a logical operation of the access rights of the different sets.

24. Apparatus according to claim 23, wherein the apparatus is arranged to allow access only to the sets of permissions that are the most extensive.
25. Apparatus according to claim 23, wherein the apparatus is arranged to allow
5 access based on a logical “or” or “exclusive-or” operation on the sets of permissions.
26. Apparatus according to claim 17, further comprising a security console (22) arranged to allow registration of control points and provide access to the logical devices.
- 10 27. Network of computing apparatuses (10) using a computer networking connectivity model and comprising:
- at least one control point (20) provided in or for one of the apparatuses of the network,
 - an apparatus (12) for enabling differentiated control point access to services
15 and comprising:
 - at least one logical device (24, 26) providing at least two different sets of permissions in relation to assets (asset1, asset2, asset3, asset4, asset5, asset6) associated with the apparatus, and
 - a security console (22) arranged to:
20 - register a control point in or for one of the logical devices in order to provide access for the control point to at least parts of the apparatus for rendering services.
28. Computer program product (52) for enabling differentiated control point access to services provided by a media provision entity in a computing environment having a
25 computer networking connectivity model, comprising a computer readable medium having thereon:
- computer program code means, to make the media provision entity execute, when said program is loaded in the media provision entity:
 - provide at least one logical device for a media provision entity, and
30 - provide at least two different sets of permissions in relation to assets associated with the media provision entity from said logical device.
29. Computer program product (52) for providing access to a control point from a media provision entity in a computing environment having a computer networking

connectivity model, which entity has at least one logical device providing at least two different sets of permissions in relation to assets associated with the media provision entity, comprising a computer readable medium having thereon:

- computer program code means, to make the media provision entity execute,

5 when said program is loaded in the media provision entity:

- receive an access attempt from a control point in all devices and granting access according to one of the sets of permissions for which the control point has received access, and

- allow access to the assets according to the permissions set.

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30. Computer program element for enabling differentiated control point access to services provided by a media provision entity in a computing environment having a computer networking connectivity model, said computer program element comprising:

- computer program code means, to make the media provision entity execute,

15 when said program element is loaded in the media provision entity:

- provide at least one logical device for a media provision entity, and

- provide at least two different sets of permissions in relation to assets

associated with the media provision entity from said logical device.

20 31. Computer program element for providing access to a control point from a media provision entity in a computing environment having a computer networking connectivity model, which entity has at least one logical device providing at least two different sets of permissions in relation to assets associated with the media provision entity, said computer program element comprising:

25 - computer program code means, to make the media provision entity execute, when said program element is loaded in the media provision entity:

- receive an access attempt from a control point in all devices and granting access according to one of the set of permissions for which the control point has received access, and

30 - allow access to the assets according to the permissions set.